

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/053573

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, FSTA, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	YUICHI MAKINO ET AL: "Inhibitory PAS domain protein (IPAS) is a hypoxia-inducible splicing variant of the hypoxia-inducible factor-3 alpha locus" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 277, no. 36, September 2002 (2002-09), pages 32405-32408, XP002960907 ISSN: 0021-9258 figure 2	1,2,8, 11,12, 14-16
X	----- -----	3,10

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 April 2005

Date of mailing of the international search report

09.06.2005

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/EP2004/053573

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	HARA S ET AL: "Expression and characterization of hypoxia-inducible factor (HIF)-3 alpha in human kidney: suppression of HIF-mediated gene expression by HIF-3alpha" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 287, 5 October 2001 (2001-10-05), pages 808-813, XP002221230 ISSN: 0006-291X the whole document -----	1,2,8, 11,12, 14-16
X		3,10
Y	BAZAN N G ET AL: "HYPOXIA SIGNALING TO GENES SIGNIFICANCE IN ALZHEIMER'S DISEASE" MOLECULAR NEUROBIOLOGY, HUMANA PRESS, US, vol. 26, no. 2/3, October 2002 (2002-10), pages 283-298, XP009029127 ISSN: 0893-7648 the whole document -----	1,2,8, 11,12, 14-16
A	GU Y-Z ET AL: "MOLECULAR CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION OF A THIRD ALPHA-CLASS HYPOXIA INDUCIBLE FACTOR SUBUNIT, HIF3ALPHA" GENE EXPRESSION, CHICAGO MEDICAL SCHOOL PRESS, NORTH CHICAGO, IL, US, vol. 7, 1998, pages 205-213, XP009000521 ISSN: 1052-2166 -----	1-16

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1, 2, 8, 11, 12, 14, 15, 16

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,8,11,12,14,15,16

The underlying inventive concept of these claims is the connection between altered levels of HIF3alpha levels and neurodegenerative disorders.

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2. claims: 3,10

Kits for the determination of the levels of HIF3alpha in samples.

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3. claims: 4-8

Transgenic non-human animals with a non native HIF3alpha sequence.

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4. claims: 9,13

Methods of identifying modulators of HIF3alpha

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